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=> s low sulfur gasoline 1966668 LOW 274327 SULFUR 58414 GASOLINE Ll 65 LOW SULFUR GASOLINE (LOW (W) SULFUR (W) GASOLINE)

=> d 1-65

L1ANSWER 1 OF 65 CAPLUS COPYRIGHT 2002 ACS

2002:521569 CAPLUS AN

DN 137:95826

TI Membrane process for separating sulfur compounds from fcc light naphtha TN

Minhas, Bhupender S.; Chuba, Michael R.; Saxton, Robert J.

ExxonMobil Research and Engineering Company, USA PΑ

SO PCT Int. Appl., 28 pp. CODEN: PIXXD2

DTPatent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ---------------PΤ WO 2002053253 A1 20020711 WO 2001-US49764 20011221 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2002111524 A1 20020815 US 2001-21800 20011212 PRAI US 2000-258583P Ρ 20001228 US 2001-21800 Α 20011212 RE.CNT 3

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ANSWER 2 OF 65 CAPLUS COPYRIGHT 2002 ACS L1

AN 2002:353568 CAPLUS

DN 136:357319

TI Low-sulfur gasoline blending stock

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- Stuntz, Gordon Frederick; Welch, Robert Charles William; Halbert, Thomas
 PA
      Exxonmobil Research and Engineering Company, USA
 so
     PCT Int. Appl., 37 pp.
      CODEN: PIXXD2
      Patent
 LA
      English
 FAN.CNT 1
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      WO 2002036718
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      US 2002084211
                                           US 2001-977000 20011012
                       A1 20020704
PRAI US 2000-245281P
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                             20001102
     US 2001-977000
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               THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 7
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 3 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
AN
     2002:190999 CAPLUS
     Sulfur reduction of naphtha with membrane technology
TI
     White, L. S.; Lesemann, Markus
ΑU
     Membranes R&D, Grace-Davison, Columbia, MD, 21044, USA
CS
SO
     Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
     States, April 7-11, 2002 (2002), PETR-015 Publisher: American Chemical
     Society, Washington, D. C.
     CODEN: 69CKQP
DT
     Conference; Meeting Abstract
LA
     English
     ANSWER 4 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
AN
     2002:189475 CAPLUS
     Sulfur analysis in fuels by ASTM D 5453 - The analyst's perspective
TI
AII
     Myers, Lisa L.; Heald, Randall L.; Hammond, Melody A.
     Phillips Research Center, Phillips Petroleum Company, Bartlesville, OK,
     74004, USA
SO
     Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
     States, April 7-11, 2002 (2002), IEC-202 Publisher: American Chemical
     Society, Washington, D. C.
     CODEN: 69CKQP
DT
     Conference; Meeting Abstract
LΑ
     English
T.1
     ANSWER 5 OF 65 CAPLUS COPYRIGHT 2002 ACS
     2001:862736 CAPLUS
AN
DN
     136:234346
TΙ
     Refinery hydrogen management for clean fuels production
ΑIJ
     Hallale, N.; Liu, F.
     Advanced Process Design, Aspen Tech Ltd., Warrington, Cheshire, WA3 7RB,
CS
SO
     Advances in Environmental Research (2001), 6(1), 81-98
     CODEN: AERDDP; ISSN: 1093-0191
PB
     Elsevier Science Ltd.
DT
     Journal
LA
     English
RE.CNT 18
              THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
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     ANSWER 6 OF 65 CAPLUS COPYRIGHT 2002 ACS
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2001:510153 CAPLUS

135:244688

AN DN

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. Canadian refinery starts up first-of-kind gasoline desulfurization unit
     Gardner, Rob; Schwarz, Eric A.; Rock, Kerry L.
ΑU
     Irving Oil Ltd., Saint John, NB, Can.
CS
    Oil & Gas Journal (2001), 99(25), 54-58
SO
     CODEN: OIGJAV; ISSN: 0030-1388
     PennWell Publishing Co.
PB
DT
     Journal
LA
     English
L1
    ANSWER 7 OF 65 CAPLUS COPYRIGHT 2002 ACS
     2001:331194 CAPLUS
AN
     134:328917
DN
    Mild hydrotreating/extraction process for low sulfur
ΤI
ΙN
     Jossens, Lawrence W.; Munson, Curtis L.
     Chevron U.S.A., Inc., USA
PA
SO
     U.S., 10 pp.
     CODEN: USXXAM
DT
     Patent
LA
    English
FAN.CNT 2
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     US 6228254 B1 20010508
                                        US 1999-330762 19990611
     US 2001020596
                     A1 20010913
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PRAI US 1999-330762 A2 19990611
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 8 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2001:228990 CAPLUS
AN
DN
     134:239973
     Gasoline sulfur reduction in fluid catalytic cracking
ΤI
     Roberie, Terry G.; Kumar, Ranjit; Ziebarth, Michael S.; Cheng, Wu-Cheng;
IN
     Zhao, Xinjin; Bhore, Nazeer
PA
     W. R. Grace & Co.-Conn., USA
     PCT Int. Appl., 29 pp.
SO
     CODEN: PIXXD2
DT
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LA
     English
FAN.CNT 2
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                                     WO 2000-US25533 20000918
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EP 2000-965111
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                           20020507
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     WO 2000-US25533
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RE.CNT 4
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 9 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
AN
     2001:176127 CAPLUS
DN
     134:254412
     Exploiting synergy between FCC and feed pretreating units to improve
TI
     refinery margins and produce low-sulfur fuels
ΑU
     Maddox, G. R.; Shorey, S. W.; Lomas, D. A.; Keesom, W. H.
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· UOP Limited, Guildford, UK
     Petroleum and Coal (1999), 41(3-4), 138-147
SO
     CODEN: PCOAFI; ISSN: 1335-1141
PB
    Research Institute of Petroleum and Hydrocarbon Gases
DT
     Journal
    English
LA
              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 2
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T.1
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AN
     2001:149832 CAPLUS
DN
     134:224804
     NiW/.gamma.-Al203 catalysts prepared by modified equilibrium deposition
ΤI
     filtration (MEDF) and non-dry impregnation (NDI). Characterization and
     catalytic activity evaluation for the production of low
     sulfur gasoline in a HDS pilot plant
     Kordulis, C.; Lappas, A. A.; Fountzoula, C.; Drakaki, K.; Lycourghiotis,
ΑU
     A.; Vasalos, I. A.
CS
     Department of Chemistry, University of Patras and Institute of Chemical
     Engineering & High Temperature Chemical Processes (ICE/HT), Patras, GR-265
     00, Greece
     Applied Catalysis, A: General (2001), 209(1,2), 85-95
SO
     CODEN: ACAGE4; ISSN: 0926-860X
PΒ
     Elsevier Science B.V.
     Journal
DT
LΑ
     English
              THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 44
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 11 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2001:133689 CAPLUS
AN
DN
     134:180930
     Multistep hydrogenation-hydroprocessing-hydrodesulfurization for manuf. of
ΤI
     low-sulfur gasoline and naphtha
     Didillon, Blaise; Uzio, Denis; Marchal, Nathalie
IN
     Institut Francais du Petrole, Fr.
PΑ
SO
     Eur. Pat. Appl., 18 pp.
     CODEN: EPXXDW
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LΆ
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     EP 1077247 A1 20010221
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                            20010921
     JP 2001055584
                      A2
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              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 12 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2001:118874 CAPLUS
AN
DN
     134:284884
     Control of air pollution from new motor vehicles: heavy-duty engine and
TΙ
     vehicle standards and highway diesel fuel sulfur control requirements
ΑU
     Borushko, Margaret
     U.S. EPA, National Vehicle and Fuel Emissions Laboratory, Ann Arbor, MI,
CS
     48105, USA
     Federal Register (2001), 66(12, Bk. 2), 5001-5193, 18 Jan 2001
SO
     CODEN: FEREAC; ISSN: 0097-6326
     Superintendent of Documents
PR
DT
     Journal
LA
     English
     ANSWER 13 OF 65 CAPLUS COPYRIGHT 2002 ACS
T.1
     2000:900740 CAPLUS
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AN

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DN
   · 134:58940
    Adsorption process for producing ultra low sulfur hydrocarbon streams
TI
    Kaul, Bal Krishan
IN
    Exxonmobil Research and Engineering Company, USA
PA
    PCT Int. Appl., 14 pp.
SO
    CODEN: PIXXD2
DT
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LA
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                                         NO 2001-5927
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    NO 2001005927
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PRAI US 1999-138687P
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RE.CNT 4
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 14 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2000:897169 CAPLUS
AN
TI
    BP Amoco to introduce low sulfur gasoline
ΑU
    Am. Ceram. Soc. Bull. (2000), 79(12), 12
SO
     CODEN: ACSBA7; ISSN: 0002-7812
PΒ
    American Ceramic Society
    Journal; News Announcement
DT
LΑ
    English
    ANSWER 15 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
AN
    2000:608440 CAPLUS
DN
    133:195803
     Two-step hydrodesulfurization of cracked naphtha for production of
ΤI
     low-sulfur gasoline
IN
    Didillon, Blaise; Uzio, Denis; Marchal, Nathalie
     Institut Francais Du Petrole, Fr.
PA
SO
     Eur. Pat. Appl., 16 pp.
     CODEN: EPXXDW
DT
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     ANSWER 16 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2000:517011 CAPLUS
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     133:179986
DN
     Getting sulfur on target
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     Halbert, Thomas R.; Brignac, Garland B.; Greeley, John P.; Demmin, Richard
ΑU
     A.; Roundtree, Eugene M.
     ExxonMobil Process Research Laboratories, USA
CS
     Hydrocarbon Engineering (2000), 5(6), 31-34, 36
SO
     CODEN: HYENF5
     Palladian Publications Ltd
PΒ
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DT Journal
   English
LA
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RE.CNT 5
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     ANSWER 17 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2000:424209 CAPLUS
AN
     133:76244
DN
     Improve reforming catalyst performance
TI
     Senn, Dwayne R.; Lin, Fan-Nan; Wuggazer, Tom
ΑU
     Phillips Petroleum Company, Bartlesville, OK, USA
CS
     World Refining (2000), 10(4), 48-49
CODEN: WOREF2; ISSN: 1524-9840
SO
     Phillips International, Inc.
PΒ
DT
     Journal
     English
LΑ
     ANSWER 18 OF 65 CAPLUS COPYRIGHT 2002 ACS
T.1
     2000:351611 CAPLUS
AN
DN
     132:350029
     Desulfurization of olefinic gasoline with a dual functional catalyst at
TΙ
     low pressure
     Fletcher, David Lee; Hilbert, Timothy Lee; Shih, Stuart Shan-San
TN
     Mobil Oil Corporation, USA
PΑ
     PCT Int. Appl., 21 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
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RE.CNT 10
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L1
      2000:351239 CAPLUS
AN
DN
      132:350027
      Process for the production of low sulfur gasolines
 ΤI
      Didillon, Blaise; Uzio, Denis; Nocca, Jean-luc; Cosyns, Jean
 IN
      Institut Francais Du Petrole, Fr.
 PΑ
      Eur. Pat. Appl., 13 pp.
 SO
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 FR 2785908 A1 20000519 FR 1998-14480
KR 2000035520 A 20000626 KR 1999-51003
CN 1253993 A 20000524 CN 1999-124834
JP 2000160169 A2 20000613 JP 1999-328071
US 6334948 B1 20020101 US 1999-443152

PRAI FR 1998-14480 A 19981118
                                                                19981118
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. ANSWER 20 OF 65 CAPLUS COPYRIGHT 2002 ACS
L1
     2000:330726 CAPLUS
ΑN
     Biodesulfurization of gasoline: An assessment of technical and economic
ΤI
    feasibility and outline of R&D roadmap toward commercialization.
    Atlas, R. M.; Boron, D. J.; Deever, W. R.; Johnson, A. R.; McFarland, B.
ΑU
     L.; Meyer, J. A.
     Biology Dept, University of Louisville, Louisville, KY, 40292, USA
CS
     Book of Abstracts, 219th ACS National Meeting, San Francisco, CA, March
SO
     26-30, 2000 (2000), IEC-269 Publisher: American Chemical Society,
     Washington, D. C.
     CODEN: 69CLAC
     Conference; Meeting Abstract
DТ
     English
LA
     ANSWER 21 OF 65 CAPLUS COPYRIGHT 2002 ACS
T.1
     2000:263659 CAPLUS
ΔN
DN
     132:336566
     Produce low sulfur gasoline via FCC feed
TI
     pretreatment
     Bavaro, Vito
ΑU
     Criterion Catalysts, Houston, TX, USA
CS
     World Refining (2000), 10(2), 30,32,34-37
CODEN: WOREF2; ISSN: 1524-9840
SO
     Phillips International, Inc.
PB
     Journal; General Review
DT
     English
LΑ
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T.1
     2000:201052 CAPLUS
AN
     132:210069
DN
     Deep desulfurization of FCC gasoline at low temperatures to maximize
TI
     octane-barrel value
IN
     Shih, Stuart S.
     Mobil Oil Corporation, USA
PΑ
     U.S., 8 pp.
     CODEN: USXXAM
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 L1
      2000:12344 CAPLUS
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      132:110207
 DN
      Catalysts in the refining industry
 TΤ
      Clause, Olivier; Mabilon, G.
 ΔIJ
      Division Cinetique et Catalyse, IFP, Rueil-Malmaison, Fr.
 CS
      Petrole et Techniques (1999), 422, 15-21
 SO
      CODEN: PETEDX; ISSN: 0152-5425
      Association Française des Techniciens et Professionnels du Petrole
 PB
      Journal; General Review
 DT
      French
 LA
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L1
     1999:803696 CAPLUS
AN
   . Low-sulfur gasoline facility planned
ΤI
ΑU
     Chem. Eng. Prog. (1999), 95(12), 20
SO
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PB
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DT
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     Black & Veatch Pritchard Inc., Overland Park, KS, USA
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     Chen, Huimin
ΑU
     China Petrochemicals Industry Group Co., Beijing, 100029, Peop. Rep. China
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     CODEN: LISHEM; ISSN: 1002-106X
     Lianyou Sheji Bianjibu
PB
     Journal; General Review
DT
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LΑ
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 L1
     1999:90454 CAPLUS
 AN
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     130:127331
     Production of BTX and gasoline blending stock from cracker and coker
 ΤI
     naphthas
     Angevine, Philip Jay; Timken, Hye Kyung Cho
 IN
     Mobil Oil Corporation, USA
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     Eur. Pat. Appl., 21 pp.
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 L1
      1999:34973 CAPLUS
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      Fatty acid amide lubricity aids and related methods for improvement of
 ΤI
      lubricity of fuels
      Gentry, David R.; Stehlin, Mark P.; Weers, Jerry J.
 IN
      Baker Hughes, Inc., USA
 PA
      PCT Int. Appl., 25 pp.
 SO
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     1999:15680 CAPLUS
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ΤI
     Cole, Roger L.; Poola, B.; Sekar, Raj
ΑU
     Argonne National Laboratory, USA
CS
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     1998:790646 CAPLUS
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     130:27081
     Hydrocarbon upgrading process
TI
     Collins, Nick Allen; Teitman, Gerald Joseph; Durand, Paul Pierce; Hilbert,
IN
     Timothy Lee; Trewella, Jeffrey Charles
     Mobil Oil Corp., USA
PΑ
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     1998:790645 CAPLUS
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     Benzene conversion in improved gasoline upgrading process
TI
     Borghard, William Stern; Collins, Nick Allen; Durand, Paul Pierce;
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     Hilbert, Timothy Lee; Trewella, Jeffrey Charles
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    CRC Press LLC
    Journal; General Review
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    128:24786
    Production of benzene, toluene, and xylene (BTX) from FCC naphtha
TI
    Timken, Hye Kyung C.; Angevine, Philip J.
IN
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    USA
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    U.S., 14 pp.
    CODEN: USXXAM
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L1
    1997:475034 CAPLUS
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    127:111088
TΙ
    Naphtha upgrading process
    Timken, Hye Kyung C.; Riedinger, Sherri L.
TN
    Mobil Oil Corporation, USA
PΑ
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TI
    Collins, Nick A.; Harandi, Mohsen N.; Kondis, Edward F.; Owen, Hartley
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    Mobil Oil Corporation, USA
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    Durand, Paul Pierce; Timken, Hye Kyung Cho
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     124:265383
     Gasoline upgrading process
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     Durand, Paul P.; Timken, Hye K. C.
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     Mobil Oil Corp., USA
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    Chawla, Birbal; Mazzone, Dominick Nicholas; Sarli, Michael Sebastian;
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    Two-stage hydrodesulfurization-upgrading of heavy naphthas over zeolite
    mixtures for manufacture of low-sulfur
    gasoline
    Fletcher, David L.; Sarli, Michael S.; Shih, Stuart S.
    Mobil Oil Corp., USA
    U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 850, 106.
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